TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-07-03** **Date: 04-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west) KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-03-17
Sample ID No	:	2017-03-07-03-01
Sample Type	:	Zuari 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-03-2017 to 03-04-2017

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.9	–
2	Finess by Air permeablity method (m2/kg, Min)	290	225m^2/kg, Min
3	Density (gm/cc)	3.2	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	265 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-07-03** **Date: 04-04-2017**

Sample ID No : **2017-03-07-03-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	310 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-24-02** **Date: 01-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west) KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-03-17
Sample ID No	:	2017-03-24-02-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0	100	100
2	40 mm	178	178	3.56	96.4	90-100
3	20 mm	1780	1958	39.16	60.8	30-70
4	10 mm	1678	3636	72.72	27.3	10-35
5	4.75 mm	1230	4866	97.32	2.7	0-5
6	Pan	134	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-24-02** **Date: 01-04-2017**

Sample ID No : 2017-03-24-02-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-24-02** **Date: 01-04-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
Address	:	Yelahanka Sub Division, BBMP, Bangalore
Project Name	:	Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west) KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-17
Sample ID No	:	2017-03-24-02-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	398	398	7.96	92.04	90-100
3	10 mm	2589	2987	59.74	40.26	25-55
4	4.75 mm	1909	4896	97.92	2.08	0-10
5	Pan	104	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-24-02

Sample ID No : 2017-03-24-02-01(a)

Date: 01-04-2017

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.8	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-24-02** **Date: 02-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west) KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-17
Sample ID No	:	2017-03-24-02-03
Sample Type/Size	:	Solid concrete blocks of size (400X200X100)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-03-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	102	202	8262	15.230	1843.3	1862.4	Not less than 1800Kg/m^3
2	400	103	202	8322	15.565	1870.3		
3	402	102	201	8242	15.443	1873.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	16.230	15.810	2.66	3.18	Shall not be more than 10% by mass
2	16.450	15.890	3.52		
3	16.660	16.120	3.35		

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Lab ID : **CP-2017-03-24-02** **Date: 02-04-17**

Sample ID No : 2017-03-24-02-03

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	101	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	102	202	
3	401	101	203	
4	402	100	202	
5	400	100	200	
6	402	100	201	
7	401	101	201	
8	403	102	202	
9	400	102	201	
10	401	103	202	
11	403	101	202	
12	403	103	201	
13	401	103	201	
14	401	102	201	
15	402	102	200	
16	402	100	201	
17	402	100	202	
18	401	102	203	
19	400	103	202	
20	400	101	200	
Average of 20 blocks	401	101	201	

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Lab ID : CP-2017-03-24-02

Date: 02-04-17

Sample ID No : 2017-03-24-02-03

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	101	40400	195	4.8	4.4
2	401	102	40902	187	4.6	
3	401	101	40501	177	4.4	
4	402	100	40200	165	4.1	
5	400	100	40000	178	4.5	
6	402	100	40200	191	4.8	
7	401	101	40501	188	4.6	
8	403	102	41106	157	3.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-03-24-02 **Date: 01-04-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.

Agency : Technical Manager (west) KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/152/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-03-17

Sample ID No : 2017-03-24-02-02

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 24-03-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	9	9	0.9	99.1	90-100	90-100	90-100	95-100
3	2.36 mm	48	57	5.7	94.3	60-95	75-100	85-100	95-100
4	1.18 mm	67	124	12.4	87.6	30-70	55-90	75-100	90-100
5	600 micron	287	411	41.1	58.9	15-34	35-59	60-79	80-100
6	300 micron	298	709	70.9	29.1	5-20	8-30	12-40	15-50
7	150 micron	255	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-24-02** **Date: 01-04-17**

Sample ID No : 2017-03-24-02-02

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.89	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron	3.80	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-03-03 **Date: 09-04-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.

Agency : Technical Manager (west) KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/152/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-17

Sample ID No : 2017-04-03-03-01

Customer ID : PCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC (1:2:4)	M15	29/03/2017	05/04/2017	150.22 X 150.54 X 150.55	22614	8.434	307.6	13.6	13.9
2	PCC (1:2:4)	M15	29/03/2017	05/04/2017	150.22 X 150.54 X 150.55	22614	8.421	314.3	13.9	
3	PCC (1:2:4)	M15	29/03/2017	05/04/2017	150.22 X 150.54 X 150.55	22614	8.467	323.4	14.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-03-03 **Date: 27-04-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.

Agency : Technical Manager (west) KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/152/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-17

Sample ID No : 2017-04-03-03-02

Customer ID : PCC (1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC (1:2:4)	M15	29/03/2017	26/04/2017	150.32 X 150.50 X 150.51	22623	8.411	375.5	16.6	16.6
2	PCC (1:2:4)	M15	29/03/2017	26/04/2017	150.20 X 150.44 X 150.31	22596	8.432	381.9	16.9	
3	PCC (1:2:4)	M15	29/03/2017	26/04/2017	150.19 X 150.10 X 150.43	22544	8.487	367.5	16.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-04-04-04 **Date: 11-04-17**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.

Agency : Technical Manager (west) KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE(YNK.D)/W.O/152/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-17

Sample ID No : 2017-04-04-04-01

Customer ID : Drain Concrete (1:1.5:3)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete (1:1.5:3)	M20	03/04/2017	10/04/2017	150.15 X 150.50 X 150.34	22598	8.230	352.5	15.6	15.9
2	Drain Concrete (1:1.5:3)	M20	03/04/2017	10/04/2017	150.29 X 150.03 X 150.15	22548	8.324	358.5	15.9	
3	Drain Concrete (1:1.5:3)	M20	03/04/2017	10/04/2017	150.38 X 150.43 X 150.64	22622	8.377	368.7	16.3	

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-24-02** **Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and Improvements to road at surabhi layout 2nd main and cross road in ward no.01 of Yelahanka Sub Division.
Agency	:	Technical Manager (west) KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-03-17
Sample ID No	:	2017-03-24-02-04
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	25-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.392	528	611	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
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